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Permit No.: WA-000297-6
Issuance Date: May 20, 2005
Effective Date: July 1, 2005
Expiration Date: June 30, 2010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE PERMIT NO. WA-000297-6

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
YAKIMA, WASHINGTON 98902

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.
authorizes

KB ALLOYS, INC.
4400 KAWECKI ROAD
MALAGA, WA 98828

Facility Location:

Same as above

Receiving Water: Outfall #001

Columbia River-River Mile 458.5

Water Body I.D. No.: Outfall #001

WA-CR-1040

Discharge Location: Outfall #001

Latitude: 47° 22' 07" N

Longitude: 120° 10' 48" W

Industry Type:

Aluminum Master Alloys Foundry

to discharge wastewater in accordance with the special and general conditions that follow.

G. Thomas Tebb, L.E.G.
Section Manager
Water Quality Program
Central Regional Office
Department of Ecology

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SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.	Discharge Monitoring Report	Monthly	August 15, 2005
S4.C.	Modification to Solid Waste Plan	As necessary	As necessary
S5.	Spill Plan	1/permit cycle, updates submitted as necessary	June 30, 2009
G1.	Signature Authorization/Delegation	As necessary	As necessary
G7.	Application for permit renewal	1/permit cycle	June 30, 2009

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

A. Process Wastewater Discharges

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on **July 1, 2005** and lasting through **June 30, 2010**, the Permittee is authorized to discharge process wastewaters to the Columbia River at the permitted location subject to meeting the following limitations:

EFFLUENT LIMITATIONS: OUTFALL # 001		
Parameter	Average Monthly ^a	Maximum Daily ^b
Flow	0.300 MGD	0.300 MGD
Total Suspended Solids	4.28 lbs/day	9.00 lbs/day
Oil and Grease	2.63 lbs/day	4.39 lbs/day
Fluoride	None specified	7.00 lbs/day
Aluminum	0.704 lbs/day	1.41 lbs/day
Chromium	0.04 lbs/day	0.10 lbs/day
Cyanide	0.026 lbs/day	0.064 lbs/day
Zinc	0.134 lbs/day	0.321 lbs/day
Temperature	None specified	27° C Daily average 44.5° C Instantaneous
pH ^c	Daily minimum is equal to or greater than 6 and the daily maximum is less than or equal to 10.	
^a The average monthly effluent limitation is defined as the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. If only one sample is taken during the calendar month, the maximum daily effluent limitation applies to that sample.		
^b The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day.		
^c Indicates the range of permitted values. When pH is continuously monitored, excursions between 5.0 and 6.0 shall not be considered violations provided no single excursion exceeds 60 minutes in length and total excursions do not exceed 7 hours and 30 minutes per month. Any excursions below 5.0 and above 10.0 are violations. The instantaneous maximum and minimum pH shall be reported monthly.		

B. Mixing Zone Descriptions

The maximum boundaries of the mixing zones are defined as follows:

The chronic mixing zone shall extent no more that 300 feet downstream and no more that 100 feet upstream of the outfall. The chronic dilution factor is calculated to be approximately 1,479:1.

The acute mixing zone shall extent no more that 30 feet downstream and no more that 10 feet upstream of the outfall. The chronic dilution factor is calculated to be approximately 476:1.

C. Best Management Practices

The Permittee is required to develop and implement a program of best management practices to minimize generation of laboratory wastewaters and potentially hazardous wastes. See fact sheet page 22 for more detailed information addressing laboratory best management practices.

S2. MONITORING REQUIREMENTS

A. Monitoring Schedule

Category	Parameter	Units	Sample Point	Minimum Sampling Frequency	Sample Type
Wastewater Effluent	Flow	MGD	Effluent Monitoring Station	Daily Measurement of Flume	Metered
"	Oil & Grease	mg/L	"	Quarterly	Grab from Cooling Water Sewer
"	Oil & Grease	lbs/day	"	Quarterly	Calculation ^a
"	TSS	mg/L	"	Quarterly	Grab from Cooling Water Sewer
"	TSS	lbs/day	"	Quarterly	Calculation
"	Temperature	°C	"	Daily Continuous Record	Gauge
"	Fluoride	mg/L	"	Quarterly	24-hour Composite
"	Fluoride	lbs/day	"	Quarterly	Calculation
"	Aluminum	mg/L	"	Quarterly	24-hour Composite
"	Aluminum	lbs/day	"	Quarterly	Calculation
"	Chromium	µg/L	"	Quarterly	Ultra-clean Grab
"	Chromium	lbs/day	"	Quarterly	Calculation
"	Copper	µg/L	"	Quarterly	Ultra-clean Grab
"	Copper	lbs/day	"	Quarterly	Calculation
"	Cyanide	µg/L	"	Quarterly ^b	Ultra-clean Grab
"	Cyanide	lbs/day	"	Quarterly	Calculation
"	Zinc	µg/L	"	Quarterly	Ultra-clean Grab
"	Zinc	lbs/day	"	Quarterly	Calculation
"	pH	Standard Units	"	Daily	Continuous Recorder

a-Mass loading of a discharge constituent is expressed in pounds per day (lbs/day) and is calculated with the following formula:

$$\text{lbs/day} = \text{Flow multiplied by Concentration multiplied by Conversion factor, or,} \\ \text{lbs/day} = \text{MGD} \times \text{mg/L} \times 8.34$$

$$1,000 \mu\text{g/L} = 1 \text{ mg/L}$$

b-In the event the first analysis of the calendar year yields a concentration of less than 10 $\mu\text{g/L}$ of cyanide, and the Permittee certifies in writing that cyanide is not and will not be used in the manufacturing process, monitoring for this parameter may be suspended until the first sampling event of the next calendar year, in accordance with 40 CFR 467.03(a).

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department.

C. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least 3 years.

D. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. Conductivity and pH shall be accredited if the laboratory must otherwise be registered or accredited.

S3. REPORTING AND RECORDKEEPING REQUIREMENTS

The Permittee shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on **July 1, 2005**. Monitoring results shall be submitted monthly. Monitoring data obtained during the previous month shall be summarized and reported on a form provided, or otherwise approved, by the Department, and be received no later than the 15th day of the month following the completed monitoring period, unless otherwise specified in this permit. The report(s) shall be sent to:

Permit Data Systems Manager
Department of Ecology
Central Regional Office
15 West Yakima Avenue, Suite 200
Yakima, Washington 98902

All lab reports providing data for organic and metal parameters shall include the following information: sampling date, sample location, date of analysis, parameter name, CAS number, analytical method/ number, method detection limit (MDL), lab practical quantitation limit (PQL), reporting units and concentration detected.

Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge or the facility was not operating during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

The Permittee shall retain records of all monitoring information for a minimum of 3 years. Such information shall include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Director.

C. Recording of Results

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place, method, and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed; (4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Special Condition S2. of this permit, then the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Permittee's self-monitoring reports.

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the permit terms and conditions due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, correct the problem and, if applicable, repeat sampling and analysis of any violation immediately and submit the results to the Department within 30 days after becoming aware of the violation;
2. Immediately notify the Department of the failure to comply; and
3. Submit a detailed written report to the Department within 30 days (five days for upsets and bypasses), unless requested earlier by the Department. The report should describe the nature of the violation, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of the resampling, and any other pertinent information.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

S4. SOLID WASTE DISPOSAL

A. Solid Waste Handling

The Permittee shall handle and dispose of all solid waste material in such a manner as to prevent its entry into ground waters or surface waters of the State.

B. Leachate

The Permittee shall not allow leachate from its solid waste material to enter state waters without providing all known, available and reasonable methods of prevention, control and treatment (AKART), nor allow such leachate to cause violations of the State Surface Water Quality Standards, Chapter 173-201A WAC, or the State Ground Water Quality Standards, Chapter 173-200 WAC. The Permittee shall apply for a permit or permit modification as may be required for such discharges to ground waters or surface waters of the State.

C. Solid Waste Control Plan

The Permittee shall submit all proposed revisions or modifications to the Solid Waste Control Plan to the Department. The Permittee shall comply with any plan modifications. The Permittee shall submit an update of the Solid Waste Control Plan by **June 30, 2009**.

S5. SPILL PLAN

The Permittee shall submit to the Department an updated Spill Control Plan by **June 30, 2009**. For the purpose of meeting this requirement, plans and manuals required by 40 CFR Part 112, and contingency plans required by Chapter 173-303 WAC may be submitted.

In the event the chemical storage arrangements at the facility are modified, the Permittee shall submit an updated Spill Control Plan to the Department within 60 days.

GENERAL CONDITIONS

G1. SIGNATURE AUTHORIZATION/DELEGATION

All applications, reports, or information submitted to the Department shall be signed and certified.

- A. All permit applications shall be signed by either a responsible corporate officer of at least the level of vice president of a corporation, a general partner of a partnership, or the proprietor of a sole proprietorship.
- B. All reports required by this permit and other information requested by the Department shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by a person described above and submitted to the Department; and,
 - 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under paragraph B.2. above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of B.2. must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

“I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

G2. RIGHT OF ENTRY

The Permittee shall allow an authorized representative of the Department, upon the presentation of credentials and such other documents as may be required by law:

- A. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit;
- B. To have access to and copy at reasonable times any records that must be kept under the terms of the permit;
- C. To inspect at reasonable times any monitoring equipment or method of monitoring required in the permit;
- D. To inspect at reasonable times any collection, treatment, pollution management, or discharge facilities; and
- E. To sample at reasonable times any discharge of pollutants.

G3. PERMIT ACTIONS

This permit shall be subject to modification, suspension, or termination, in whole or in part by the Department for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

The Department may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittee shall submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a material change in the quantity or type of discharge is anticipated which is not specifically authorized by this permit. This application shall be submitted at least 60 days prior to any proposed changes. Submission of this application does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to the Department for approval in

accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least 180 days prior to the planned start of construction. Facilities shall be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing the Permittee from compliance with any applicable Federal, State, or local statutes, ordinances, or regulations.

G7. DUTY TO REAPPLY

The Permittee must apply for permit renewal at least 1 year prior to the specified expiration date of this permit.

G8. PERMIT TRANSFER

This permit is automatically transferred to a new owner or operator if:

- A. A written agreement between the old and new owner or operator containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the Department;
- B. A copy of the permit is provided to the new owner; and,
- C. The Department does not notify the Permittee of the need to modify the permit.

Unless this permit is automatically transferred according to section A. above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by the Department.

G9. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee, in order to maintain compliance with its permit, shall control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

G10. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall not be resuspended or reintroduced to the final effluent stream for discharge to State waters.

G11. TOXIC POLLUTANTS

If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Clean Water Act for a toxic pollutant and that standard or prohibition is more stringent than any limitation upon such pollutant in the permit, the Department shall institute proceedings to modify or revoke and reissue the permit to conform to the new toxic effluent standard or prohibition.

G12. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G13. ADDITIONAL MONITORING

The Department may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G14. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by the Department. The Department may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

G15. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be and be deemed to be a separate and distinct violation.